



CTMC (Cloud Telephone Management Center)
User Manual

V1.0



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Chapter 1 BRIEF INTRODUCTION

CTMC (Cloud Telephony Management Center) is a network node management center which has been independently developed by ZYCOO, and can be utilized by VoIP service providers and enterprises users to manage multiple CooVox CTNs (Cloud Telephony Nodes).

CTMC provides a multitude of features for CTN's including auto-provision, software/firmware upgrade management, status/performance monitoring, warning log diagnosis etc. CMTC is a powerful solution that delivers the features and functionality required to manage and maintain a highly dispersed telephony environment through the use of a single centralized management system.

CTMC comprises of the following major features:

- Centralized monitoring/configuration and upgrading of CTN
- Cost-savings for calls between each CTN via Numbering Plan
- Monitor system information, configuration and service status
- View and backup of system log, operation log and call log of each CTN
- Manage configuration for individual or multiple devices based on user groups
- Flexible upgrading control strategy allowing for convenient software and firmware upgrades
- Adopting B/S managing mode, multi-language GUI, humanized management process, and easy operation
- Based on TR069 protocol, allowing nodes to pass through private networks
- Manage multi-service and user groups based on template
- Based on Linux which ensures the device is secure and reliable

Chapter 2 SYSTEM INSTALLATION

2.1 Obtain CTMC System Image

Download the latest CTMC firmware (CTMC_Install_Package.iso) on ZYCOO website:
http://www.zycoo.com/files/upload/CTMC_Install_Package.iso, or request ZYCOO to provide you with an installation disk.

2.2 Install CTMC

Install CTMC system by CD or USB drive. During the installation, you will be required to configure language, input keyboard, time zone, password to root user. The default IP is eth0:192.168.1.100.

Notice: Before using CTMC, you need to upgrade your current CooVox IP PBX to CTN. Download the latest CTN firmware (CTN_Upgrade_Package.zip) on ZYCOO website:
http://www.zycoo.com/files/upload/CTN_Upgrade.Package.zip, unzip and use respective firmware to upgrade U20, U50 or U100 to the node mode.

2.3 Free Trial & License Purchase

A lifetime free trial can be available for Three (3) CTNs on CTMC; more than Three (3), you will need to purchase formal license.

Purchase license for:

* Expansion number for CTNs: 5 CTNs/ 10 CTNs/ 20 CTNs/ 30 CTNs

Once purchased, the license gets the lifetime effectiveness.

2.4 Hardware Requirement for CTMC Installation

1. PC Requirements

CPU: Intel(R) Atom(TM) CPU or higher

RAM: 512MB or higher

HDD: 10GB free space at least

Graphic Card: VGA compatible or higher

CD Driver: CD-ROM/DVD-ROM

Others: Audio Card, Network, Modem and so on

2. System Requirements

Linux OS installed by formal installation process

Default IP is DHCP

3. Bandwidth Requirements

CTMC operating bandwidth is the sum of bandwidth of all managed nodes.

Respective bandwidth as below:

Model	Amount	Bandwidth
CooVox-U20	1	100 Kbps
CooVox-U50	1	100 Kbps
CooVox-U100	1	100 Kbps

For example, there are 10pcs U20 managed by CTMC, the bandwidth of CTMC is:
 $10 \times 100\text{Kbps} \times 2 > 2\text{Mbps}$ (uplink & downlink), which is the minimum bandwidth
in the case of full concurrent calls is 2Mbps.

4. Port Requirements

Port	Functionality
8505	Port for CTMC background monitoring nodes
8506	Port CTMC download
9998	Port for Web access to CTMC
9898	Port for nodes configuration on CTMC
1194	Port for VPN

Note: If CTMC is in public network, 8505 / 8506 / 1194 must stay open.

Chapter 3 QUICK START GUIDE

3.1 Quick START Guide

This Quick Start Guide includes a few simple examples that will introduce you to how CTMC manages the CTN. For detailed information, please refer to the respective chapters.

3.2 Detailed Steps

CTMC is a simple and easy-used Web GUI, which can be easily accessed by IP address on a Linux server. To access the CTMC GUI for the first time, go to the default address <http://192.168.1.100:9998>. The default username is admin, and the default password is admin.



Once logged in you will see the following page:

The screenshot shows the ZYCOO Cloud Telephony Management Center (CTMC) interface. The top navigation bar includes the ZYCOO logo and the text "WE FOCUS WE DELIVER". To the right is the title "Cloud Telephony Management Center (CTMC)". On the left, a vertical sidebar menu lists "Home", "Node Management", "Logs", "Network Settings", and "System Settings". The main content area displays a grid of nodes with status indicators (Offline, Online, Alarm). Below the grid, summary statistics are shown: Total:20, Online:16, Offline:3, and Alarm:1. A "CTMC Info" section provides version information (Version:v1.0.0), patch details (Patch(es):), system time (System Time:09/10/2014 03:25), and run time (Run Time:18 min).

Step 1: VPN settings on server

VPN settings is a basic and necessary application in CTMS for network construction.

This step can be skipped; please just use the default VPN settings.

To configure the VPN server, select 【Network Settings】 → 【VPN Settings】 :

The screenshot shows the "VPN Settings" configuration dialog. It contains fields for "Enable VPN:" (checked), "Port:" (set to 1194), "Protocol:" (set to UDP), "Remote Network:" (set to 11.10.10.0 / 255.255.255.0), and "Routings:" (set to 11.10.10.0 / 255.255.255.0). At the bottom are "Save" and "Cancel" buttons.

Status: Enable

Reference:

Item	Explanation
Enable	Enable/Disable VPN
Port	1194 by default
Protocol	UDP/TCP
Remote Network	Default
Routings	Default

Note: Port number 9998, 8505, 9898, 1194 must be open if CTMC is in public network.

Step 2: Check Node List

To check the Node list, select 【Node Management】 → 【Node List】 :

Node List

	Name	Model	Last Update Time	Version	Status	Options			
1	Chengdu	CooVox-U50	2014-06-08 11:57:51	1.0.5	Online	Detail	Status	Edit	Delete
2	Kielce	CooVox-U20	2014-06-09 11:11:42	1.0.5	Online	Detail	Status	Edit	Delete
3	Doncaster	CooVox-U20	2014-06-09 11:11:47	1.0.4	Online	Detail	Status	Edit	Delete
4	Dubai	CooVox-U50	2014-06-09 18:38:11	1.0.5	Online	Detail	Status	Edit	Delete
5	Medellin	CooVox-U50	2014-06-09 11:11:48	1.0.5	Online	Detail	Status	Edit	Delete
6	Miami	CooVox-U50	2014-06-09 11:11:42	1.0.5	Online	Detail	Status	Edit	Delete
7	Hannover	CooVox-U100	2014-06-09 11:11:51	1.0.5	Online	Detail	Status	Edit	Delete
8	Caracas	CooVox-U50	2014-06-08 18:06:25	1.0.5	Online	Detail	Status	Edit	Delete
9	Taipei	CooVox-U20	2014-06-09 11:11:51	1.0.5	Offline	Detail	Status	Edit	Delete
10	Monterrey	CooVox-U20	2014-06-07 21:49:01	1.0.5	Offline	Detail	Status	Edit	Delete
11	Tehran	CooVox-U50	2014-06-05 13:49:54	1.0.5	Online	Detail	Status	Edit	Delete
12	Algiers	CooVox-U20	2014-06-09 11:00:19	1.0.5	Alarm	Detail	Status	Edit	Delete
13	La Paz	CooVox-U20	2014-06-09 11:11:45	1.0.5	Online	Detail	Status	Edit	Delete
14	Hanoi	CooVox-U20	2014-06-09 11:11:49	1.0.5	Online	Detail	Status	Edit	Delete
15	Lima	CooVox-U20	2014-06-08 21:15:11	1.0.5	Online	Detail	Status	Edit	Delete
16	Sofia	CooVox-U50	2014-06-05 09:51:36	1.0.5	Online	Detail	Status	Edit	Delete
17	Santo Domingo	CooVox-U20	2014-06-07 18:02:17	1.0.4	Online	Detail	Status	Edit	Delete
18	Bucharest	CooVox-U100	2014-06-07 18:02:17	1.0.5	Offline	Detail	Status	Edit	Delete
19	Buenos Aires	CooVox-U20	2014-06-07 18:02:17	1.0.5	Online	Detail	Status	Edit	Delete
20	Kuala Lumpur	CooVox-U20	2014-06-07 18:02:17	1.0.5	Online	Detail	Status	Edit	Delete

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In this list there are 20 nodes registered to CTMC.

Reference:

Item	Explanation
Name	Name of node
Model	Model of node
Last Update Time	Last update time
Version	Version of node
Status	Connection status for node to CTMC (online/offline)
Options	Detail: Details of node Status: Monitor status of node, such as memory usage, port operation status Edit: Edit configuration of node, such as DialRule, trunks, outbound routes, etc. similar functions of PBX. Delete: Delete node

Step 3: Configure node

We will use “Chengdu” as an example:

First we need to configure the Numbering Plan of the node, select 【Node Management】->【Numbering Plan】 :

Numbering Plan		Numbering Plan.	
	Name	Prefix	Ext. Length
1	Chengdu		
2	Kielce	51	1
3	Doncaster	64	1
4	Dubai	32	3
5	Medellin	16	2
6	Miami	13	3

Select “Edit”:

Edit Extension

Prefix: (00-99)

Ext. Length: (1-10)

We need to add a prefix in front of the extension number and also define the length of the following extension number. Click “Save” when completed.

Next we need to configure detailed settings, please click【Node Management】->【Node List】, then click “Edit”:

Configuration Saved!

Submit

Model No.:CooVox-U50
Serial No.:003344FFEE19
Device Name:Chengdu

Extensions

Extension:	Search	Show All
<input type="text"/>	<input type="button" value="Search"/>	<input type="button" value="Show All"/>
<input type="button" value="New User"/>	<input type="button" value="Batch Add Users"/>	<input type="button" value="Delete Selected Users"/>

Codecs: The allowed codecs can be selected. By default only alaw, ulaw and G.729 are allowed.

Extensions

Name	Extension	Port	Protocol	DialPlan	Outbound CID	Options
<input checked="" type="checkbox"/> 1 1600	1600	--	SIP	DialPlan1		<input type="button" value="Edit"/>
<input type="checkbox"/> 2 1601	1601	--	SIP	DialPlan1		<input type="button" value="Edit"/>

For detail information, please refer to Chapter 8.

Finally, click “Submit” to save.

Configuration Saved!

Submit

Model No.:CooVox-U50
Serial No.:003344FFEE19
Device Name:Chengdu

Submit

Step 4: Push Configure File

After configuration has completed, you are required to push the configuration file to the CTN: Service Reload or Restart, System Reboot or Upgrade, Obtain System Log or Call Log, all of these configuration files can be pushed here.

Click 【Node Management】 → 【Operation】 :

Operation 

	Name	Version	Push Conf.	Status	Operation	Firmware	Result	<input type="checkbox"/>
1	Chengdu	1.0.5	Yes 	Online	Service Reload 			<input type="checkbox"/>
2	Kielce	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
3	Doncaster	1.0.4	No 	Online	Service Reload 			<input type="checkbox"/>
4	Dubai	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
5	Medellin	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
6	Miami	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
7	Hannover	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
8	Caracas	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
9	Taipei	1.0.5	No 	Offline	Service Reload 			<input type="checkbox"/>
10	Monterrey	1.0.5	No 	Offline	Service Reload 			<input type="checkbox"/>

 Apply

For example, set the Push Conf option to “Yes” and the Command option to “Service Reload”, and select the check box at the end of the line as shown below. Finally select “Apply”, and the CTN will reboot and become active.

Finally the Result option will show “success”.

Operation 

	Name	Version	Push Conf.	Status	Operation	Firmware	Result	<input type="checkbox"/>
1	Chengdu	1.0.5	Yes 	Online	Service Reload 		success 	<input checked="" type="checkbox"/>
2	Kielce	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
3	Doncaster	1.0.4	No 	Online	Service Reload 			<input type="checkbox"/>
4	Dubai	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
5	Medellin	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
6	Miami	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
7	Hannover	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
8	Caracas	1.0.5	No 	Online	Service Reload 			<input type="checkbox"/>
9	Taipei	1.0.5	No 	Offline	Service Reload 			<input type="checkbox"/>
10	Monterrey	1.0.5	No 	Offline	Service Reload 			<input type="checkbox"/>

 Apply

Chapter 4 NODE MANAGEMENT

This chapter is about how to manage nodes, including Edit Configuration, Status Check, Command Order, Numbering Plan, Package List and so on.

4.1 Node List

From this list of nodes, you can check the status, detail configurations of each node, edit or delete nodes.

To check the node list, click 【Node Management】 → 【Node List】 :

Node List

	Name	Model	Last Update Time	Version	Status	Options			
1	Chengdu	CooVox-U50	2014-06-08 11:57:51	1.0.5	Online	Detail	Status	Edit	Delete
2	Kielce	CooVox-U20	2014-06-09 11:11:42	1.0.5	Online	Detail	Status	Edit	Delete
3	Doncaster	CooVox-U20	2014-06-09 11:11:47	1.0.4	Online	Detail	Status	Edit	Delete
4	Dubai	CooVox-U50	2014-06-09 18:38:11	1.0.5	Online	Detail	Status	Edit	Delete
5	Medellin	CooVox-U50	2014-06-09 11:11:48	1.0.5	Online	Detail	Status	Edit	Delete
6	Miami	CooVox-U50	2014-06-09 11:11:42	1.0.5	Online	Detail	Status	Edit	Delete
7	Hannover	CooVox-U100	2014-06-09 11:11:51	1.0.5	Online	Detail	Status	Edit	Delete
8	Caracas	CooVox-U50	2014-06-08 18:06:25	1.0.5	Online	Detail	Status	Edit	Delete
9	Taipei	CooVox-U20	2014-06-09 11:11:51	1.0.5	Offline	Detail	Status	Edit	Delete
10	Monterrey	CooVox-U20	2014-06-07 21:49:01	1.0.5	Offline	Detail	Status	Edit	Delete
11	Tehran	CooVox-U50	2014-06-05 13:49:54	1.0.5	Online	Detail	Status	Edit	Delete
12	Algiers	CooVox-U20	2014-06-09 11:00:19	1.0.5	Alarm	Detail	Status	Edit	Delete
13	La Paz	CooVox-U20	2014-06-09 11:11:45	1.0.5	Online	Detail	Status	Edit	Delete
14	Hanoi	CooVox-U20	2014-06-09 11:11:49	1.0.5	Online	Detail	Status	Edit	Delete
15	Lima	CooVox-U20	2014-06-08 21:15:11	1.0.5	Online	Detail	Status	Edit	Delete
16	Sofia	CooVox-U50	2014-06-05 09:51:36	1.0.5	Online	Detail	Status	Edit	Delete
17	Santo Domingo	CooVox-U20	2014-06-07 18:02:17	1.0.4	Online	Detail	Status	Edit	Delete
18	Bucharest	CooVox-U100	2014-06-07 18:02:17	1.0.5	Offline	Detail	Status	Edit	Delete
19	Buenos Aires	CooVox-U20	2014-06-07 18:02:17	1.0.5	Online	Detail	Status	Edit	Delete
20	Kuala Lumpur	CooVox-U20	2014-06-07 18:02:17	1.0.5	Online	Detail	Status	Edit	Delete

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Reference:

Item	Explanation
Name	Name of node
Model	Model of node
Last Update Time	Last update time
Version	Version of node
Status	Connection status for node to CTMC (online/offline)
Options	Detail: Details of node

	<p>Status: Monitor status of node, such as memory usage, port operation status</p> <p>Edit: Edit configuration of nodes, such as DialRule, trunks, outbound routes, etc., similar functions of PBX</p> <p>Delete: Delete node</p>
--	---

Reference:

Item	Explanation
Online	This node can be monitored, managed and operated by CTMC when the node is online. It cannot be deleted .
Offline	This node cannot be monitored, managed or operated by CTMC when the node is offline. It can be deleted.
Alarm	When VPN connection fails, this node cannot be monitored, managed and operated remotely. It can be deleted.

4.1.1 Node Detail

To check details of a node, click 【Node List】→【Options】→【Detail】:

Node Detail		X
Name	Chengdu	
MAC ID	68692E040390	
Local Address	192.168.1.86	
VPN Address	11.10.10.22	
Abstract		
Contact	Mr.Wang	
Location	Chengdu tianfu software park	
Model	CooVox-U50	
Version	1.0.5	
Register Time	2014-06-20 03:20:14	
Last Update Time	2014-06-20 22:33:37	
FXO Port(s)	2	
FXS Port(s)	2	
GSM Port(s)	0	
E1/T1 Port(s)	0	
BRI Port(s)	4	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>		

Reference:

Item	Explanation
Name	Name of node. It can be edited when node is online.
MAC ID	MAC of node, the sole identifier of device
Local Address	Network Address of node
VPN Address	VPN address of node
Abstract	Abstract of node
Contact	Contacts of node
Location	Location of node
Model	Model of node
Version	Version of node
Register Time	The first time node is registered to CTMC
Last Update Time	Last update time
Version	Version of node
Status	Connection status of node with CTMC (online/offline)
FXO Port(s)	Number of FXO on nodes
FXS Port(s)	Number of FXS on nodes
GSM Port(s)	Number of GSM on nodes
E1 Port(s)	Number of E1 on nodes
BRI Port(s)	Number of BRI on nodes

4.1.2 Status of Nodes

To check node status, memory usage, port operation status, click 【Node List】 → 【Options】 → 【Status】 :

Node List → Status

Basic Status :

MAC ID	Disk Size	Time Zone	Host Name	Run Time	Reload Time	Version
68692E040390	/dev/root 3.0G 188.6M 2.6G 7% /	Asia/Chongqing	CooVox	System runtime: 5 days, 2 hours, 21 minutes, 3 seconds	Last reload: 2 minutes, 4 seconds	1.0.5
Bytes sent on ETH0	Bytes received on ETH0	Bytes sent on ETH1	Bytes received on ETH1	Register	Register	
220728860	895081908	0	0	Online	46	

FXO :

E1:

	Connect Status	call status	Model	Protocol	Connect Status	Protocol Status
32	Disconnected	idle	1	E1	CPE	Disconnected
33	Disconnected	idle				Down

Reference:

Item	Explanation
MAC ID	MAC address of node, the sole identifier of device
Storage	Storage usage status
Time Zone	Time zone of node
Host Name	Host name of node
Run Time	Run time of node
Reload Time	Asterisk reload time of node
Version	Version of node
Bytes sent on ETH0	Bytes sent on ETH0 of node
Bytes received on ETH0	Bytes received on ETH0 of node
Bytes sent on ETH1	Bytes sent on ETH1 of node
Bytes received on ETH1	Bytes received on ETH1 of node
Registration Status	Registration status of node on CTMC (Online/Offline/Alarm)
Registration Count	Reconnection count of offline node

Check FXO instant status:

FXO :

	Connection Status	call status
1	Disconnected	idle
2	Disconnected	idle

Reference:

Item	Explanation
Port	Port of FXO
Connection Status	Connected/ Disconnected
Call Status	Idle/ Busy

Check GSM instant status:

GSM:

	Connect Status	call status
1	23	idle
2	NO SIM CARD	

Reference:

Item	Explanation
Port	Port of GSM
Connection Status	Signal strength of SIM card

	No SIM card
Call Status	Idle/ Busy

Check E1/T1 instant status:

E1:

	Model	Protocol	Connect Status	Protocol Status
1	E1	CPE	Disconnected	

Reference:

Item	Explanation
Port	Port of E1/T1
Mode	E1, T1
Protocol	NET, CPE, MFC
Physical Port	Connected/ Disconnected
Protocol Status	UP/ DOWN

Check BRI instant status:

BRI:

	Connect Status	BRI Model
1	Not Settings	TE
2	Not Settings	TE
3	Not Settings	TE
4	Not Settings	TE

Reference:

Item	Explanation
Port	Port of BRI
Connection Status	Connected/ Disconnected
BRI Model	TE/ NT

4.1.3 Node Configurations

【Node Management】 → 【Edit】

For detail configuration of node, please refer to Chapter 8.

4.1.4 Delete Nodes

【Node Management】 → 【Delete】

When the node is offline or alarm, it's able to be deleted.

4.2 Operation

Every node is under control by CTMC; configure file need to be pushed via remote operation, including service reload & restart, system reboot & upgrade, obtain system log & call log.

Operation menu for nodes:

	Name	Version	Push Conf.	Status	Operation	Firmware	Result	
1	Chengdu	1.0.5	Yes	Online	Service Reload			
2	Kielce	1.0.5	No	Online	Service Reload			
3	Doncaster	1.0.4	No	Online	Service Restart			
4	Dubai	1.0.5	No	Online	System Reboot			
5	Medellin	1.0.5	No	Online	System Upgrade			
6	Miami	1.0.5	No	Online	Obtain System Log			
7	Hannover	1.0.5	No	Online	Obtain Call Log			
8	Caracas	1.0.5	No	Online	Service Reload			
9	Taipei	1.0.5	No	Offline	Service Reload			
10	Monterrey	1.0.5	No	Offline	Service Reload			

Apply

Reference:

Item	Explanation
Name	Name of node
Version	Version of node
Push Conf.	Push Configure file or not

Status	Connection status of node with CTMC (online/offline)
Operation	Service Reload Service Restart System Reboot System Upgrade Obtain System Log Obtain Call Log
Firmware	Firmware of node
Result	Results for APPLY (Query/Executing/Success/Fail)
□	Check item
APPLY	Click to apply

4.3 Numbering Plan

Numbering Plan is the most featured functionality for enterprises to achieve cost-savings. Each node will be assigned a numbering plan from CTMC centrally.

To check node's Numbering Plan, click 【Node Management】 → 【Numbering Plan】 :

Numbering Plan		Numbering Plan.		
	Name	Prefix	Ext. Length	
1	Chengdu			Edit
2	Kielce	51	1	Edit
3	Doncaster	64	1	Edit
4	Dubai	32	3	Edit
5	Medellin	16	2	Edit
6	Miami	13	3	Edit

We will take node "Chengdu" as an example:

Edit Extension X

Prefix: (10-99)

Ext. Length: (1-10)

Save
Cancel

The device has been configured with a Prefix of 16 and following with 2 digits-extension, to confirm this click "Save". After creating the extensions, please dial 6500 to test.

Note: If this node has been configured Numbering Plan, the system will remind "CTN has

been configured extensions through numbering plan; please configure again after deleting extensions”; the “Edit” button is grey and not available.

4.4 Package List

All the package will be listed here. If you want to upgrade the node, please upload the relative firmware or patch package here; after uploaded the package, you need to push this configuration file from “Operation” .

Of cause, it's allowed to be deleted if necessary.

To check the package of nodes, click 【Node Management】 → 【Package List】 :

Package List			
Model		Version	
U20	1	v105.patch1	<button>Delete</button>
U50	1	v104.patch2	<button>Delete</button>
	2	v105.patch1	<button>Delete</button>

1) After loading the package, please upgrade the package from the menu “Operation”; the firmware version related to the node device will be identified automatically when you select “System Upgrade”.
2) You can upgrade the package or the patch of the package separately.
Naming rule of ZYCOO IP PBX: V105 means the package version; V105.Patch1 means the patch version of package V105.

To upload a package or update a file, click “Choose File”:

Package List	Upload Package
Upload Package	
Warning: DO NOT edit the file because a file with same name will be overwritten!	
Please select file.: <input type="file"/> Choose File	No file chosen
	Upload

Chapter 5 LOGS

As the central management system, all the logs of each node are monitored by CTMC. This is much helpful for enterprises to manage and monitor the branch offices' operations remotely. System logs, operation logs and call logs are included.

5.1 Operation Logs

Check the operation history by operation logs.

Click【Logs】→【Operation Logs】, select the node you want to check and start date & end date, then click 【Filter】 :

Start Date:	Jun	20	2014	Device: Chengdu	<input type="button" value="Filter"/>
End Date:	Jun	20	2014		
	MAC ID	Operation	Upgraded File	Date	Result
1	68692E030219	Service Reload		2014-06-20 02:34:29	success
2	68692E030219	Service Reload		2014-06-20 02:43:27	success
3	68692E030219	Service Reload		2014-06-20 03:26:30	success
4	68692E030219	Obtain Call Log		2014-06-20 03:30:23	success
5	68692E030219	Obtain Call Log		2014-06-20 03:31:41	success
6	68692E030219	Obtain System Log		2014-06-20 03:47:25	success
7	68692E030219	Service Reload		2014-06-20 03:52:07	success
8	68692E030219	System Upgrade	v105.BRIpatch1	2014-06-20 04:01:38	success
9	68692E030219	System Upgrade	v105.BRIpatch1	2014-06-20 04:33:34	success

Total:9 per page pages: << >>

5.2 System Logs

Check the system logs of each node. It's allowed to be downloaded to the local to analyze and debug.

To check system logs of each node, click 【Logs】 → 【System Logs】 :

System Logs			
	Name	Log State	Options
1	Chengdu	Existing	<input type="button" value="Delete"/>
2	New York	Existing	<input type="button" value="Delete"/>

Total:2 per page pages: << >>

Reference:

Item	Explanation
Name	Name of node
Log Status	Not Existing: No logs, get system log on 【Node Management】 → 【Operation】 Existing: Node system log obtained

Options	Download: Download to browse or backup Delete: Delete uploaded logs
---------	--

5.3 Call Logs

Check the call logs of nodes.

Call logs allow you to run a report of calls on your node. As the management center, CTMC can check all the call logs of each node by filtering the device.

Select the start date & end date, and node device, then click 【Filter】 :

Start Date:	<input type="button" value="Jan"/> <input type="button" value="20"/> <input type="button" value="2014"/>	End Date:	<input type="button" value="Jun"/> <input type="button" value="20"/> <input type="button" value="2014"/>	Device:	<input type="button" value="Chengdu"/> <input type="button" value="Filter"/>
Call Start Caller ID Destination ID Duration(second) Disposition					
1	2014-05-29 15:40:38	"9600" <9600>	9400	2	ANSWERED
2	2014-06-12 11:24:49	"86002" <86002>	9401	32	ANSWERED
3	2014-06-12 11:25:26	"9401" <9401>	86002	8199	ANSWERED
4	2014-06-12 15:04:26	"9401" <9401>	86002	697	ANSWERED
5	2014-06-12 15:16:10	"9401" <9401>	86002	39	ANSWERED
6	2014-06-17 15:54:17	"9400" <9400>	8700	2	ANSWERED
7	2014-06-17 15:56:36	"8700" <8700>	9400	75	ANSWERED
8	2014-06-19 14:49:37	"9300" <9300>	9400	7	ANSWERED
9	2014-06-19 14:49:59	"9300" <9300>	9400	2386	ANSWERED
Total:9 <input type="button" value="10"/> per page pages: << <input type="button" value="1"/> >>					

Chapter 6 NETWORK SETTINGS

This chapter is about how to make local network settings of CTMC.

6.1 Network Settings

Local network settings, including WAN settings & LAN settings. It's necessary to configure this to ensure the CTMC is connected to the public network.

To configure network settings of CTMC, click 【Network Settings】 → 【Network Settings】 :

WAN Settings	
IP Addresses:	192.168.1.98
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.1
Primary DNS:	8.8.8.8
Alternate DNS:	
LAN Settings	
IP Addresses:	192.168.10.100
<input type="checkbox"/> IP AddressesV1:	
<input type="checkbox"/> IP AddressesV2:	
Subnet Mask:	255.255.255.0
Subnet MaskV1:	
Subnet MaskV2:	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

WAN Settings:

Item	Explanation
IP Address	Set a static IP address
Subnet Mask	Default
Gateway	Default
Primary DNS	Default
Alternative DNS	Default

LAN Settings:

Item	Explanation
IP Address	Set a static IP address
Subnet Mask	Default

6.2 VPN Settings

The interactive communication between CTMC and its CTNs must be passed through VPN. The default is OpenVPN. Here is OpenVPN server settings of CTMC, including port, protocol, IP segment and so on.

To configure the VPN server, click 【Network Settings】→【VPN Settings】:

Enable VPN:	<input checked="" type="checkbox"/>
Port:	1194
Protocol:	UDP
Remote Network:	11.10.10.0 / 255.255.255.0
Routings:	11.10.10.0 / 255.255.255.0
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Status: Enable

Reference:

Item	Explanation
Enable VPN	Enable/Disable VPN
Port	Default 1194
Protocol	UDP/TCP
Remote Network	Default
Routings	Default

6.3 Static Routings

Local static routings management. There is default static routing; if you need more static routings, please add by the following instructions.

To configure static address routings, click 【Network Settings】→【Static Routings】→【Edit】:

Static Routings List					Add Static Routing
	Destination Network	Subnet Mask	Gateway	Options	
1	192.168.20.0	255.255.255.0	192.168.1.121	Edit Delete	

Click 【Add Static Routing】

Destination Network:	
Subnet Mask:	
Gateway:	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Reference:

Item	Explanation
Remote Network	Network (IP segment) of remote network
Subnet Mask	Subnet mask of remote network
Gateway	Gateway of remote network

Click 【Network Settings】→【Static Routings】→【Routing Table】to check status of current routing:



Routing Table:

Kernel IP routing table							
Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
11.10.10.2	0.0.0.0	255.255.255.255	UH	0	0	0	tun0
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0
11.10.10.0	11.10.10.2	255.255.255.0	UG	0	0	0	tun0
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0
0.0.0.0	192.168.1.1	0.0.0.0	UG	0	0	0	eth0

6.4 DDNS Settings

DDNS allows dynamic addresses to be mapped and tracked to a host name.

To configure DDNS, Click 【Network Settings】→【DDNS Settings】:

A screenshot of a web-based configuration interface for DDNS settings. The title bar says "DDNS Settings". The form contains the following fields:

Enable:	<input checked="" type="checkbox"/>
DDNS Server:	www.no-ip.com
Username:	zycoo
Password:	*****
Domain:	zycoo.com

At the bottom are "Save" and "Cancel" buttons. Below the form, a status message reads "Status: DDNS Waiting.....".

The device supports DynDns.org/No-ip.com/zoneedit.com for now.

6.5 Troubleshooting

Troubleshooting section allows you to confirm the status of the network by performing simple diagnostics including, ping to other network devices or Traceroute command to trace network routings, click 【Network Settings】→【Trouble Shooting】 :

Ping Traceroute

Ping Packets: Run

```
PING 192.168.1.1 (192.168.1.1) 56(84) bytes of data.  
64 bytes from 192.168.1.1: icmp_seq=1 ttl=64 time=0.357 ms  
64 bytes from 192.168.1.1: icmp_seq=2 ttl=64 time=0.275 ms  
64 bytes from 192.168.1.1: icmp_seq=3 ttl=64 time=0.263 ms  
64 bytes from 192.168.1.1: icmp_seq=4 ttl=64 time=0.269 ms  
--- 192.168.1.1 ping statistics ---  
4 packets transmitted, 4 received, 0% packet loss, time 3003ms  
rtt min/avg/max/mdev = 0.263/0.291/0.357/0.038 ms
```

Note: Port 9998, 8505, 8506, 1194 must be open when CTMC is in the public network.

Chapter 7 SYSTEM SETTINGS

This chapter is about how to make system settings of CTMC.

7.1 Change Password

Change password of CTMC.

To change CTMC's login password, click 【System Settings】→【Password】

Password
Old Password: <input type="text"/>
New Password: <input type="text"/>
Confirm Password: <input type="text"/>
<input type="button" value="Save"/>

7.2 Reset & Reboot

Manage CTMC, to reset to factory default, or reboot.

To reset to factory default, click【System Settings】→【Reset & Reboot】→【Reset to factory Default】：

Reset to Factory Default
<p>Warning:All the configuration data will be lost when the system is reset to factory default. Please confirm that you have already backed up the configuration before reset.</p> <p><input type="button" value="Reset to Factory Default"/></p>

Note: All the configuration data will be lost when the system is reset to factory default. Please confirm that you have already backed up the configuration before reset.

To reboot CTMC, click【System Settings】→【Reset & Reboot】→【Reboot】：

Reboot
<p>Warning:All the active calls will be terminated when the system reboot.</p> <p><input type="button" value="Reboot"/></p>

Note: All the active calls will be terminated when the system reboots.

7.3 Upgrade

Upgrade CTMC to latest firmware, to make the system working under the best condition. Before upgrading, you need to download the latest firmware of CTMC from ZYCOO official website: www.zycoo.com.

To upgrade CTMC firmware, click 【System Settings】 → 【Upgrade】

The screenshot shows the 'Upgrade' configuration page. It features two radio buttons: 'Web Upgrade' (selected) and 'TFTP Upgrade'. Below these is a 'Reset to default:' checkbox. A file selection input field displays 'Please select file.: Choose File No file chosen'. At the bottom is a large green 'Upgrade' button.

Note: Please backup the CTMC before upgrade, and save backup files in your computer.

7.4 Backup

Backup is important for any enterprise in case you need restore the system. The backup includes the settings of CTMC and function configuration of its nodes. Here you need backup the CTMC system manually, or upload to the local for restoration purpose.

To backup the configuration and logs files of CTMC or nodes, click 【System Settings】 → 【Backup】

The screenshot shows the 'Backup Management' page. It has tabs for 'Backup Management' (selected) and 'Upload Backup File'. Below is a 'Backup File List' table with columns: Name, Date, and Options (Restore, Delete, Download). The table lists 8 backup files with names like backup_2014-05-04_15-27-46.tar.gz and dates from May 2014. Each row has a 'Take a Backup' link above it.

Backup File List		Take a Backup	
	Name	Date	Options
1	backup_2014-05-04_15-27-46.tar.gz	2014-05-04_15-27-46	<button>Restore</button> <button>Delete</button>
2	backup_2014-05-12_19-39-26.tar.gz	2014-05-12_19-39-26	<button>Restore</button> <button>Delete</button>
3	backup_2014-05-12_19-39-32.tar.gz	2014-05-12_19-39-32	<button>Restore</button> <button>Delete</button>
4	backup_2014-05-21_13-51-01.tar.gz	2014-05-21_13-51-01	<button>Restore</button> <button>Delete</button>
5	backup_2014-05-21_13-52-59.tar.gz	2014-05-21_13-52-59	<button>Restore</button> <button>Delete</button>
6	backup_2014-05-21_13-53-07.tar.gz	2014-05-21_13-53-07	<button>Restore</button> <button>Delete</button>
7	backup_2014-05-27_10-25-42.tar.gz	2014-05-27_10-25-42	<button>Restore</button> <button>Delete</button>
8	backup_2014-05-27_17-40-44.tar.gz	2014-05-27_17-40-44	<button>Restore</button> <button>Delete</button>

Backup Management	Upload Backup File
<h3 style="margin: 0;">Upload Backup File</h3> <p>Warning:DO NOT edit the file because a file with same name will be overwritten!</p> <p>Please select file.: <input type="button" value="Choose File"/> No file chosen</p> <p style="text-align: center;"><input type="button" value="Upload"/></p>	

7.5 Time Settings

Time settings of CTMC. Time can be synchronized via setting the NTP server, or set manually.

To set the time zone & time of CTMC, click **【System Settings】 → 【Time Settings】**

Synchronize via NTP Server:

Time Settings	
<input checked="" type="radio"/> NTP <input type="radio"/> Manual Setting	
NTP Server: <input type="text" value="pool.ntp.org"/>	
Time Zone: <input type="text" value="Africa/Abidjan"/> <input type="button" value="▼"/>	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Manual Setting:

Time Settings	
<input type="radio"/> NTP <input checked="" type="radio"/> Manual Setting	
_____ (YYYY, For Example: 2010) _____ (MM, For Example: 05) _____ (DD, For Example: 08) _____ (HH, For Example: 09) _____ (MM, For Example: 30)	
Synchronize with the current PC time. <input type="button" value="Sync"/>	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

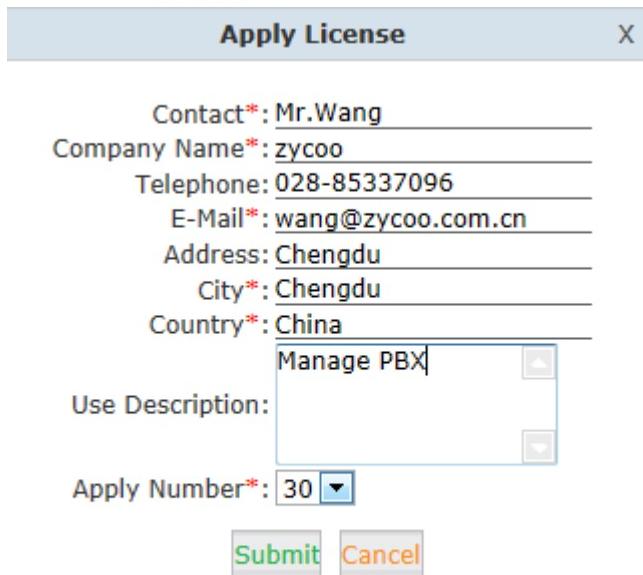
Note: The system will reboot after the time changes.

7.6 License Upload

With expanding of the enterprise business, you need to increase the number of nodes on CTMC then you will need to buy the license and upload a new license, click【System Settings】→【License】→【Apply】:



After click "Apply", you will see:



Contact*: Mr.Wang
Company Name*: zycoo
Telephone: 028-85337096
E-Mail*: wang@zycoo.com.cn
Address: Chengdu
City*: Chengdu
Country*: China
Manage PBX
Use Description:
Apply Number*: 30
Submit Cancel

Note: License is provided by ZYCOO directly.

Item	Explanation
Contact	The Contact who applies license (* mandatory field)
Company Name	Provide company name that the contact comes from (*mandatory field)
Telephone	The Contact's telephone number (*mandatory field)
E-Mail	The email of the applicant (*mandatory field). Note: applicant cannot receive the license file if email is incorrect)
Address	The company address
City	The city where the company is located(*mandatory field)
Country	The country where the company is located (*mandatory field)
Use Description	General description of your idea to use the CTMC system
Apply Number	Select the PBX numbers you need to manage (*mandatory field)

Note: Before apply license, you need to confirm that CTMC is in network connectivity (please refer to chapter 6.5) . Fill in the whole information above to apply, you will receive the email from ZYCOO CTMC License Production Center which means ZYCOO CTMC Production team

has already received your application.

Please waiting for the license release, and the license file will be sent to your email(which is filled in the above application form). After receive license file, you can upload it.

To upload CTMC license, please click 【System Settings】→【License】→【Upload】:

Upload License File

Warning:DO NOT edit the license file because a file with same name will be overwritten!

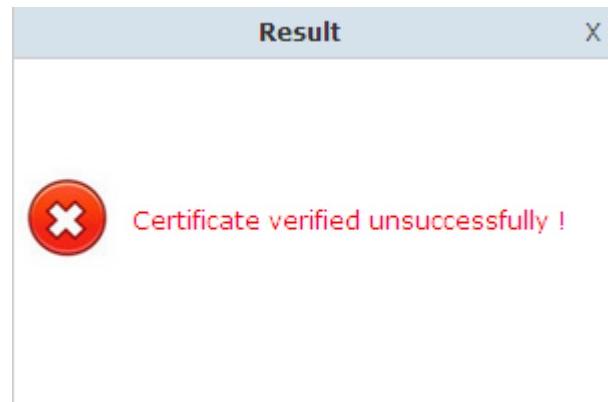
Please select file.: No file chosen

If license upload was successful then you will receive the following notification:



Certificate verified successfully! (30 nodes max.) .

If license upload failed then you will receive the following notification:



Certificate verified unsuccessfully !

Chapter 8 NODES CONFIGURATION

8.1 Extensions

This device supports SIP/ IAX2 and analog extensions. It supports batch add users by selecting Extension Start & Extension End, or by uploading extensions file.

Click 【Basic】 → 【Extensions】 to configure:

Extensions

Extension:	<input type="text"/>	<input type="button" value="Search"/>	<input type="button" value="Show All"/>			
<input type="button" value="New User"/>	<input type="button" value="Batch Add Users"/>	<input type="button" value="Delete Selected Users"/>				
Extensions						
<input type="checkbox"/> Name	Extension	Port	Protocol	DialPlan	Outbound CID	Options
<input type="checkbox"/> 1 9400	9400	--	SIP	DialPlan1		<input type="button" value="Edit"/>

Click 【New User】 to see the extension configuration interface as below:

New

General		
SIP: <input checked="" type="checkbox"/>	IAX2: <input type="checkbox"/>	
Name: <input type="text" value="9401"/>	Extension: <input type="text" value="9401"/>	
Password: <input type="text" value="nCyAQUUVva"/>	Outbound CID: <input type="text"/>	
DialPlan: <input type="button" value="DialPlan1"/>	Analog Phone: <input type="button" value="None"/>	
Voicemail		
Enable: <input checked="" type="checkbox"/>	Password: <input type="text" value="1234"/>	
Delete VMail: <input type="checkbox"/>	Email(Fax/Voicemail): <input type="text"/>	
Other Options		
Web Manager: <input checked="" type="checkbox"/>	Agent: <input type="checkbox"/>	
Call Waiting: <input checked="" type="checkbox"/>	Pickup Group: <input type="button" value="0"/>	
VoIP Settings		
NAT: <input checked="" type="checkbox"/>	Transport: <input type="button" value="UDP"/>	SRTP: <input type="checkbox"/>
DTMF Mode: <input type="button" value="RFC2833"/>	Permit IP: <input type="text"/>	
Video Options		
Video Call: <input type="checkbox"/>	<input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263+ <input type="checkbox"/> H.264	
Audio Codecs		
<input checked="" type="checkbox"/> ulaw <input checked="" type="checkbox"/> alaw <input type="checkbox"/> G.722 <input checked="" type="checkbox"/> G.729 <input type="checkbox"/> G.726 <input type="checkbox"/> GSM <input type="checkbox"/> Speex		
<input type="button" value="Save"/>	<input type="button" value="Cancel"/>	

Extension Settings Reference:

Item	Explanation
SIP/IAX2	Choose extension protocol.
Name	Extension Name (English Character Only), e.g.: Tom.
Extension	Extension Number connected to the phone, e.g.: 888.
Password	Same password as voicemail. (4-16 digits, e.g.:123456)
Outbound CID	Override the caller ID when dialing out with a trunk.
Dial Plan	Please choose the Dial Plan which is defined in the menu "Outbound Routes".
Analog Phone	Please choose the relative FXS port for your analog phone.
Voicemail	Check this option to enable the voicemail account.
VM Password	Set password for Voicemail, for security reasons, do not use the extension number or any easy combination like "1234"
Delete VMail	Check this option to delete voicemail from the PBX after it's sent by email.
Email (FAX/Voicemail)	Extension user's email address to receive email messages with attached fax or voicemail (you need configure the fax to email/voicemail options), e.g.: Tom@gmail.com
Web Manager	Allow this user to login to the Extension Management Panel to manage extension options including voicemail, call recording, call transfer, etc when you select this option.
Agent	Check this option to set this extension user as agent.
Call Waiting	Enable call waiting
Pickup Group	Select the Pickup Group which the extension user belongs to.
NAT	Check this option if extension user or the phone is located outside the NAT(Network Address Translation) available gateway.
Transport	Select the Transport Protocol: UDP, TCP, TLS
SRTP	Enable SRTP (Secure Real-time Transport Protocol)
DTMF Mode	Default DTMF is rfc2833. It can be changed if necessary..
Permit IP	Set device IP address or subnet permitted to register to this extension with the IP PBX, e.g.:192.168.1.77 or 192.168.10.0/255.255.255.0. Devices with other IP addresses are not permitted to register to this extension.
Video Call	Check to enable video calling for this extension. And select the video codecs you need to use.
Audio Codecs	Select what audio codecs you need to use.

Batch Add Users

It's available to batch add users, please click **【Batch Add Users】** to see the following window:

Batch Add Users

Extension Start:	Extension End:
DialPlan: <input type="text" value="DialPlan1"/>	<input type="checkbox"/> Password:(Random) <input type="text"/>
<input style="margin-right: 10px;" type="button" value="Save"/> <input type="button" value="Cancel"/>	

Input the extension number to start and end to define the extension range, select the dialplan for the extension; password can be random for each extension or defined to the same



Notice:

1. The quantity of extension numbers for each node is determined by the node device model. E.g.: Node Chengdu is CooVox-U50, CooVox-U50 supports max.100 extensions then 100 extensions can be added to the node maximumly.
 2. The admin can set the extension rule for each node to distinguish the node. E.g.: Node Chengdu is 8xx, Node NewYork is 7xx, Node Doncaster is 6xx...
-

8.2 Trunks

If you wish to configure an outbound trunk to connect to the PSTN (Public Switch Telephone Network) or VoIP provider then you need to configure it here: **【Basic】 → 【Trunks】**

VoIP Trunks

VoIP Trunks	FXO/GSM Trunks
-------------	----------------

List of Trunks					New VoIP Trunk
Provider Name	Type	Hostname/IP	Username	Options	
No VoIP Trunk defined Please click on 'New VoIP Trunk' button to add a Trunk					

The device supports a choice of two types of trunk, customized VoIP/SIP trunk or FXO/GSM/BRI/PRI trunk. VoIP trunk can be configured here, but FXO/GSM/BRI/PRI trunk have to be configured from each CTN separately for different module settings.

The instructions below detail how to configure VoIP trunk type:

VoIP Trunks

Click 【VoIP Trunk】 → 【New VoIP Trunk】 :

The screenshot shows the 'New VoIP Trunk' configuration dialog. It includes fields for Description (with a red box around it), Protocol (SIP dropdown), Host (5060), Maximum Channels (0), Prefix, Caller ID, Without Authentication checkbox, Username (with a red box around it), Authuser, Password, Advanced Options checkbox, Save, and Cancel buttons.

VoIP Trunks Reference:

Item	Explanation
Description	Description of SIP trunk.
Protocol	Select protocol for outbound route, SIP or IAX2.
Host	Set host address (provided by VoIP Provider).
Maximum Channels	Set maximum channels for simultaneous call. (Only for outbound call; "0" = no limitation).
Prefix	The prefix will be added in front of your dialed number automatically when the trunk is in use.
Caller ID	This Caller ID will be displayed when user make outbound call. Note: This function must be supported by local provider.
Without Authentication	If your trunk is static IP based and does not require a registration string when connecting the CooVox IP PBX, select this option.
Username	Username provided by VoIP Provider.
Password	Password provided by VoIP Provider.
Advanced Options	Advanced options for this trunk, e.g.: codecs, dialplan, etc.

The outbound trunk can be viewed in the list of VoIP Trunks when the trunk has been added successfully.

FXO/GSM Trunk

The following page is for CooVox-U20 only; FXO /GSM trunk settings on CooVox-U50/U100 will be similar as this.

Click 【FXO/GSM Trunk】 -> 【New FXO/GSM Trunk】 :

New FXO/GSM Trunk

Description: _____

Lines: **FXO:** 3 4
GSM: _____

Prefix: _____

Advanced Options

Call Method:	<input type="button" value="Order"/>	
Busy Detection:	<input type="button" value="Yes"/>	Busy Count: 3
Input Volume:	<input type="button" value="40%"/>	Output Volume: <input type="button" value="40%"/>
Call Progress:	<input type="button" value="No"/>	Progress Zone: <input type="button" value="US"/>
Busy Pattern:	_____	Language: <input type="button" value="Default"/>
Answer on Polarity Switch: <input type="button" value="No"/>		
Hangup on Polarity Switch: <input type="button" value="No"/>		
Auto Fax Detection: <input type="checkbox"/>		

FXO/GSM Trunk Reference:

Item	Explanation
Description	Description for this trunk.
Lines	Check one or more channels (FXO or GSM) to be included in this trunk group
Prefix	The prefix will be added to the dialed number automatically when this trunk is in use.
Advanced Options	Advanced Options for this trunk, e.g.: Call Method, Busy Detection, etc.

E1/T1 Trunk

Click **【E1/T1Trunks】** → **【New E1/T1 Trunk】** :

New E1/T1 Trunk

Description: _____

Channels:

1	2	3	4	5	6	7	8	9	10	11	
12	13	14	15	16	17	18	19	20	21		
22	23	24	25	26	27	28	29	30			
31											

[Check All](#) [unCheck All](#)

Prefix: _____

Caller ID: _____

Advanced Options

Call Method: Order

Resetinterval: Overlapdial:

Priindication: Inband Language: Default

Context: Default

Switchtypen: National ISDN type 2

Auto Fax Detection:

[Save](#) [Cancel](#)

E1/T1 Trunk Reference:

Item	Explanation
Description	Define description for the trunk
Channels	Individual channel of the trunk
Prefix	The prefix will be added to the dialed number automatically when this trunk is used.
Caller ID	Specify the caller ID to use when making outbound calls over this trunk. The caller ID set in the 'VoIP Trunks' screen will override the caller ID set in the 'Extensions' screen. Please note that aren't all service providers support this feature. Contact your service provider for more information.
Advanced Options	
Call Method	<p>Call Method: It's used for how to use analog ports for this trunk.</p> <p>Order -- Order to select the non-busy analog channel.</p> <p>Reverse Order -- Reverse order to select the non-busy analog channel .</p> <p>Order Cycle -- Use round-robin search, starting at the next channel of the one that worked last time.</p> <p>Reverse Circulation -- Use round-robin search, starting at the previous channel of the one that worked last time.</p>
Resetinterval	sets the time in seconds between restart of unused channels, defaults to 3600 minimum 60 seconds
Overlapdial	Whether Asterisk can dial this switch using overlap digits. Default: no.
Priindication	Tells how Asterisk should indicate Busy and Congestion to the switch/user. Default: inband.

Language	Define voice prompt language for the trunk.
Context	Select the dialplan for this trunk
Switchtype	Set the switchtype of PRI: National ISDN 2; dms100(Nortel DMS100) ; 4ess (AT&T 4ESS) ; 5ess (Lucent 5ESS) ; euroisdn (EuroISDN , common in Europe) ; ni1 (Old National ISDN 1) ; qsig (Q.SIG) Default is National ISDN type 2.
Auto Fax Detection	Detect the fax automatically

BRI Trunk

Click 【BRI Trunks】 → 【New BRI Trunk】

New BRI Trunk	
Description:	
Lines:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
Prefix:	_____
Caller ID:	_____
Advanced Options	
Echo Cancel:	<input type="checkbox"/>
Overlapdial:	<input type="checkbox"/>
method:	Standard ▾
Context:	Default ▾
Language:	Default ▾
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

BRI Trunk Reference:

Item	Explanation
Description	Define description for the trunk
Lines	Individual channel of the trunk
Prefix	The prefix will be added to the dialed number automatically when this trunk is used.
Caller ID	Specify the caller ID to use when making outbound calls over this trunk. The caller ID set in the 'VoIP Trunks' screen will override the caller ID set in the 'Extensions' screen. Please note that aren't all service providers support this feature. Contact your service provider for more information.
Advanced Options	
Echo Cancel	Echo cancellation
Overlapdial	Overlap dialing mode (sending overlap digits)
Method	Set the method to use for channel selection: Standard - Use the first free channel starting from the lowest number. Standard is default value! ReverseOrder – (standard_dec) Use the first free channel starting from the highest number. RoundRobin - Use the round robin algorithm to select a channel. Use this if you want to balance your load.
Context	Select the dialplan of this trunk

Language

Define voice prompt language for the trunk.

Select one or more of the available channels to be used for the trunk group.

Note: each channel can only be included in one trunk group. If no channels appear then all available channels are already defined.

8.3 Outbound Routes

Outbound Routes are used to define and control how outbound calls are made and controlled. If you do not allow an extension user to place external calls, please ignore this section.

Please configure on this page: **【Basic】 → 【Outbound Routes】**

DialPlans

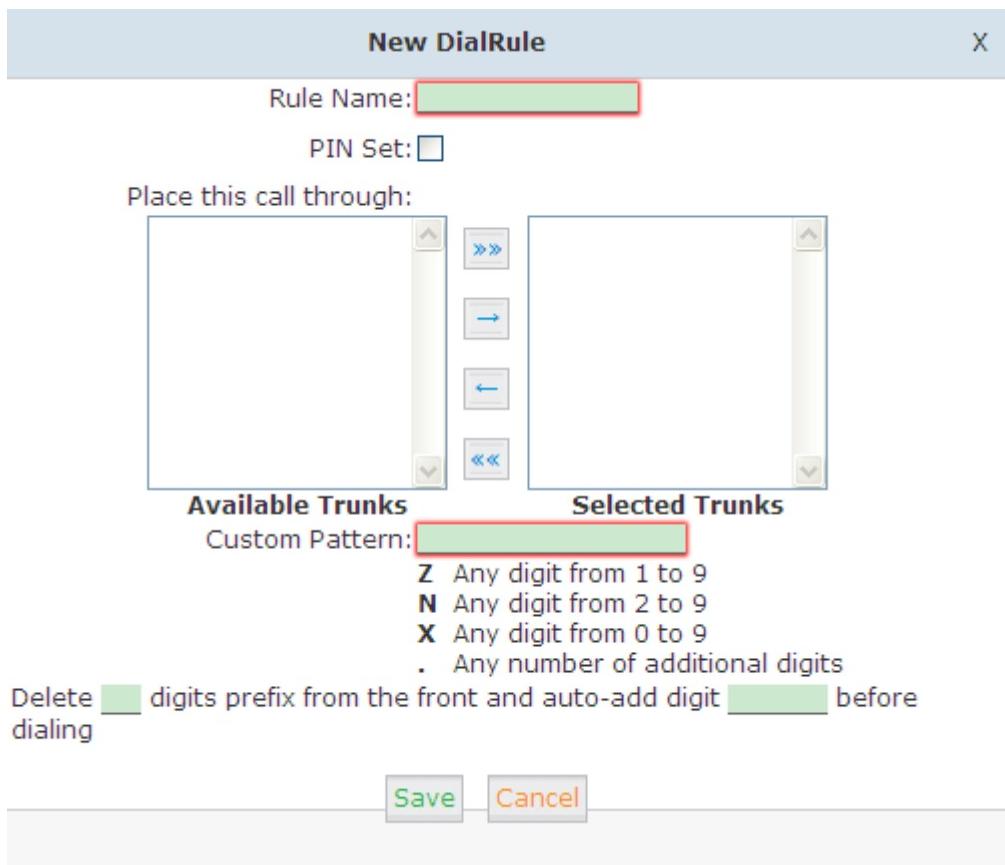
List of DialPlans				New DialPlan
Default	DialPlan Name	Rules	Options	
<input checked="" type="checkbox"/>	1	DialPlan1 Spy, Conference, Ring Groups, IVR, Call Queues, Paging and Intercom, Directory, DISA		Edit Delete

You can configure a basic match pattern of outbound routes and create different dial plans on this page. Dialplans are assigned to extensions and determine what types of calls an extension can make. For example, create “InternalDialPlan” to include all Internal Calling Rules but do not select any outbound dial rules. Select “InternalDialPlan” for all extension users that do not need the ability to make external calls.

Select **【DialPlans】 → 【New DialPlan】** :

DialRules

Dialrules defines patterns that will be used by the system to determine how to route a call. These are particularly useful if you have multiple trunks and you want to control how these trunks should be used.



Reference:

Item	Explanation
Rule Name	Define the name for the dial rule.
Pin Set	Input this Pin when you use this dial rule (security feature).
Call Duration Limit	Set the duration limit for a call, beyond which the call will be auto hung up
Time Rule	Set the time interval for this DialRule, beyond which the call based on this DialRule won't work (security feature)
Place this call through	Select one of the trunk groups that have been set up to use for this dial rule
Custom Pattern	N any digit from 2 to 9 Z any digit from 1 to 9 X any digit from 0 to 9 . One or more digits
Delete[]digits prefix	How many digits will be deleted from what the user dialed to what is actually sent over the trunk. For example, user dialed 94166445775 and you selected to delete 1 digit, then 4166445775 is sent out the trunk.
Auto-add digit[]	If add digit "9", when dial 12345, 912345 will be sent.

8.4 Inbound Control

8.4.1 Inbound Routes

Inbound Routes are used by the system to determine how external call should be routed, e.g. to an extension, IVR etc.

Select 【Inbound Control】 → 【Inbound Routes】

(This page differs when the device model is different)

General

General	Port DIDs	Number DIDs	DOD Settings
From FXO/GSM Channels			
Distinctive Ring Tone:	<input type="text"/>		
Destination:	Goto IVR	<input type="button" value="▼"/>	working time <input type="button" value="▼"/>
From VoIP Channels			
Distinctive Ring Tone:	<input type="text"/>		
Destination:	Goto IVR	<input type="button" value="▼"/>	working time <input type="button" value="▼"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>			

General

Distinctive Ring Tone: mapping the custom ring tone file, e.g.: Set distinctive ring tone as "External", the phone will play this ring tone when receiving the call.

Note: The phone must support this feature as well.

Select all calls coming in on a specific port (FXO/GSM/VOIP...) and select which destination (Extension User, IVR, Queue, Conference Bridge, IVR, etc) should answer those calls. Setting the label will assign this label to be displayed.

Port DIDs

To have incoming calls from a PSTN trunk port (FXO/GSM trunk) answered by a specific extension user, call queue, conference bridge, or IVR, please configure here:

Select 【Port DIDs】 → 【New Port DIDs】 :

New Port DID

Port:	<input type="button" value="▼"/>	Label:	<input type="button" value=""/>
Destination:	<input type="button" value="Goto Extension"/> ▼	<input type="button" value="1600(1600)"/> ▼	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>			

1. Port Select the trunk group port
2. Label Set a label for this port. Incoming calls from this port will display the specified label.
3. Destination Incoming calls will be answered by the specified destination (extension user, call queue, conference bridge, or IVR)

Number DIDs

If you want to select the destination(matches callee ID) of inbound calls on PRI/BRI or VoIP Trunks based on the incoming DNIS (dialed number or DID). You can specify the DID and destination (user extension, queue, conference bridge, or IVR):

Select **【 Number DID】 → 【New Number DID】 :**

New Number DID

DID Number:	<input type="button" value=""/>
Destination:	<input type="button" value="Goto Extension"/> ▼ <input type="button" value=""/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

1. DID Number Set DID Number
2. Destination Select the extension for access directly(Extension User/ Call Queue/ conference/ IVR)

DOD

If you want to select the destination(matches caller ID) of inbound calls on PRI/BRI or VoIP Trunks based on the incoming DNIS (dialed number or DID). You can specify the DID and destination (user extension, queue, conference bridge, or IVR):

Select **【 DOD Settings】 → 【New DOD】 :**

New DOD

DOD Number:	<input type="button" value=""/>
Destination:	<input type="button" value="Goto Extension"/> ▼ <input type="button" value=""/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

- | | | |
|----|-------------|--|
| 1. | DID Number | Set DID Number |
| 2. | Destination | Select the extension for access directly(Extension User/
Call Queue/ conference/ IVR) |

8.4.2 IVR

IVR (Interactive Voice Response) or Automated Attendant will allow callers to select from a specific set of options by pressing the selected digit on their telephone dial pad.

Select 【Inbound Control】 → 【IVR】 :

IVR

List of IVRs			New IVR	
	Extension	Name	Dial other Extensions	Options
1	9401	working time	Yes	Edit Delete
2	9402	closed time	No	Edit Delete

Select 【New IVR】 to create a new IVR:

New IVR

X

IVR Settings

Name: _____ Extension: 9400

Welcome Message

Please Select: [Custom Prompts](#)

Repeat Loops:

Dial other Extensions

Keypress Events

Key	Action
0	Disabled
1	Disabled
2	Disabled
3	Disabled
4	Disabled
5	Disabled
6	Disabled
7	Disabled
8	Disabled
9	Disabled
*	Disabled
#	Disabled
t	Disabled

IVR Reference:

Item	Explanation
Name	Enter a descriptive name for the IVR
Extension	Enter a unique extension or IVR number. This number is used to access the IVR from an internal extension
Custom	Click "Custom" to choose a DialPlan for IVR
Please Select	Select the IVR prompt that will provide the caller with instructions on what options are available. To configure the prompt in this page: 【IVR Prompt】
Repeat Loops	Loop times to repeat playing the IVR prompt if the caller does not select an option
Dial Other Extension	Allow user to dial other extensions besides the listed options
Keypress Event	Select the available options beside the designated digit

8.4.3 IVR Prompts

IVR prompts can be recorded by using any extension registered to the PBX or they can be uploaded from the “Upload IVR Prompt” section below.

IVR Prompts**【IVR Prompts】**IVR Prompts 

List of Prompts 			Delete Selected
	Name	Options	
<input type="checkbox"/>	1 closed.gsm	<input type="button" value="Delete"/>	
<input type="checkbox"/>	2 welcome.gsm	<input type="button" value="Delete"/>	

Upload IVR prompt**【Upload IVR prompt】**

Upload IVR Prompts

IVR Prompts	Upload IVR Prompts
Upload IVR Prompts	
<p>Note: The sound file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw! The size is limited in 15MB!</p> <p>Please choose file to upload: <input type="button" value="Choose File"/> No file chosen</p> <p><input type="button" value="Upload"/></p>	



Notice:

The device supports custom audio file with wav,gsm,ulaw,alaw format.

Recordings must be smaller than 15MB.

8.4.4 Call Queue

Create Agent

To allow a user to be considered an agent in a Call Center queue, please select the "Agent" option for the specific user extension.

Select 【Basic】 → 【Extension】 → 【Edit】 the extension you want to configure:

Step1: Tick 【Agent】 and 【Save】

Edit

General

SIP:	<input checked="" type="checkbox"/>	IAX2:	<input type="checkbox"/>
Name:	60000	Extension:	60000
Password:	eYz_EchfP%	Outbound CID:	
DialPlan:	DialPlan1	Analog Phone:	None

Voicemail

Enable:	<input checked="" type="checkbox"/>	Password:	1234
Delete VMail:	<input type="checkbox"/>	Email(Fax/Voicemail):	

Other Options

Web Manager:	<input checked="" type="checkbox"/>	Agent:	<input type="checkbox"/>
Call Waiting:	<input checked="" type="checkbox"/>	Pickup Group:	0

VoIP Settings

NAT:	<input checked="" type="checkbox"/>	Transport:	UDP	SRTP: <input type="checkbox"/>
DTMF Mode:	RFC2833	Permit IP:		

Video Options

Video Call:	<input type="checkbox"/>
<input type="checkbox"/> H.261 <input type="checkbox"/> H.263 <input type="checkbox"/> H.263+ <input type="checkbox"/> H.264	

Audio Codecs

<input checked="" type="checkbox"/> ulaw <input checked="" type="checkbox"/> alaw <input type="checkbox"/> G.722 <input checked="" type="checkbox"/> G.729 <input type="checkbox"/> G.726 <input type="checkbox"/> GSM <input type="checkbox"/> Speex

Save **Cancel**

Tick 【Agent】 and save.

Step2: Select 【Inbound Control】 → 【Call Queues】

Call Queues 1

Call Queues 1	Call Queues 2	Call Queues 3
Call Queue Reference: Queue Number: 9401 Label: _____ Ring Strategy: <input style="width: 100px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px 10px;" type="button" value="Random"/> Agents: <input checked="" type="checkbox"/> 9400		

Queue Options:	Announcements:
Agent TimeOut(sec): <u>15</u> <input type="checkbox"/> Auto Pause Wrap-Up-Time(sec): <u>10</u> Max Wait Time(sec): _____ Max Callers: <u>8</u> <input type="checkbox"/> Join Empty <input type="checkbox"/> Leave When Empty <input type="checkbox"/> Auto Fill <input type="checkbox"/> Report Hold Time	Caller Position Announcements Frequency(sec): <u>30</u> Announce Hold Time: <input style="width: 100px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px 10px;" type="button" value="yes"/> Periodic Announcements Repeat Frequency(sec): <u>0</u> Announcements Prompt: <input style="width: 100px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px 10px;" type="button" value="yes"/> If not answered Destination: <input style="width: 100px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px 10px;" type="button" value="Hangup"/>
<input style="margin-right: 10px;" type="button" value="Save"/> <input type="button" value="Cancel"/>	

Reference:

Item	Explanation
Queue Number	Define an extension number to identify the queue.
Label	Define the label for the queue.
Ring Strategy	RingAll--Ring all available agents until one answers(default) RoundRobin – Starting with the first agent, ring the extension of each agent in turn until the call is answered. LeastRecent – ring the extension of the Agent who has least recently received a call FewestCalls – ring the extension of the Agent who has taken the fewest number of calls. Random – ring the extension of a random Agent. RRmemory -- RoundRobin with Memory, like RoundRobin above, except instead of the next call starting with the first agent, the system remembers which extension was called last and begins the round robin with the next agent .
Agent	Check each agent that is to be a member of this specific Call Center Queue.

Queue Options & Announcements:

Queue Options:	Announcements:
<p>Agent TimeOut(sec): 15 <input type="checkbox"/> Auto Pause</p> <p>Wrap-Up-Time(sec): 10</p> <p>Max Wait Time(sec): 10</p> <p>Max Callers: 8</p> <ul style="list-style-type: none"> <input type="checkbox"/> Join Empty <input type="checkbox"/> Leave When Empty <input type="checkbox"/> Auto Fill <input type="checkbox"/> Report Hold Time 	<p>Caller Position Announcements</p> <p>Frequency(sec): 30</p> <p>Announce Hold Time: yes</p> <p>Periodic Announcements</p> <p>Repeat Frequency(sec): 0</p> <p>Announcements</p> <p>Prompt:</p> <p>If not answered</p> <p>Destination: Hangup</p>

Save **Cancel**

Reference:

Item	Explanation
Agent TimeOut(sec)	Specify the number of seconds to ring an agent's extension before sending the call to the next Agent (based on Ring Strategy).
Auto Pause	If an Agent's extension rings and the Agent fails to answer the call, automatically pause that agent so they stop receiving calls from the queue.
Wrap-Up-Time(sec)	This is the amount of time in seconds that an agent has to complete work on a call after the call is disconnected. (Default is 0, which means no wrap-up time.)
Max Wait Time(sec)	Calls that have been waiting in the queue for this number of seconds will be sent to the ""If not answered" destination.
Max Callers	Max number of the callers who are allowed to wait in the queue. (Default is 0, which means no limitation.). With this number of callers in the queue already, subsequent callers will be sent to the ""If not answered" destination.
Join Empty	Allow callers to enter the Queue when no Agents are available. If this option is not defined, callers will not be able to enter Queues with no available agents - callers will be sent to the "If not answered" destination.
Leave When Empty	If this option is selected and calls are still in the queue when the last agent logs out, the remaining callers in the Queue will be transferred to "If not answered" destination. This option cannot be used with Join Empty simultaneously.
Auto Fill	Callers will be distributed to Agent automatically.
Report Hold Time	Report the hold time of the next caller for Agent when the Agent is answering the call.
Frequency(sec)	Repeat frequency to announce the hold time for callers in the Queue.(“0” means no announcement).
Announce Hold Time	Announce the hold time. Announce (yes), do not announce (no) or announce once (once), it will not be announced when the hold time

	is less than 1 minute.
Repeat Frequency(sec)	Interval time to play the voice menu for callers.(“0” mean not to play).
Announcement Prompt	Select a prompt as the Announcements Prompt from the IVR Prompts.

8.4.5 Ring Groups

A Ring Group (sometimes called a Hunt Group) is a way to ring a collection of extensions by dialing a single extension number. The methodology used to ring that collection of extensions is called the ring strategy. Once the timeout (number of seconds) is reached, the call will then be directed to the “if not answered” or failover destination.

To configure a Ring Group select【Inbound Control】→【Ring Groups】→【New Ring Group】:

New Ring Group

Name: <input style="width: 100%; border: 1px solid red;" type="text"/>	Strategy: <input style="width: 100%; border: 1px solid black;" type="button" value="RingAll"/>
Ring Group Members <div style="border: 1px solid #ccc; padding: 5px; height: 150px; overflow-y: auto;"> 9430(SIP) 9430 9431(SIP) 9431 9432(SIP) 9432 </div>	Available Channels <div style="border: 1px solid #ccc; padding: 5px; height: 150px; overflow-y: auto;"> 9400(SIP) 9400 9433(SIP) 9433 9434(SIP) 9434 9435(SIP) 9435 9436(SIP) 9436 9437(SIP) 9437 </div>
<input style="width: 20px; height: 20px; border: 1px solid #ccc; margin-right: 10px;" type="button" value="<<"/> <input style="width: 20px; height: 20px; border: 1px solid #ccc; margin-right: 10px;" type="button" value="←"/> <input style="width: 20px; height: 20px; border: 1px solid #ccc; margin-right: 10px;" type="button" value="→"/> <input style="width: 20px; height: 20px; border: 1px solid #ccc;" type="button" value=">>"/>	
Label: <input type="text"/> Extension for this ring group: <input type="text"/> Ring (each/all) for lasting time(sec): <input type="text" value="20"/>	
If not answered <input checked="" type="radio"/> Goto Extension <input type="radio"/> Goto Voicemail <input type="radio"/> Goto Ring Group <input type="radio"/> Goto IVR <input checked="" type="radio"/> Hangup	
<input style="width: 80px; height: 25px; border: 1px solid #ccc; border-radius: 5px; background-color: #e0f2e0; color: black; font-weight: bold; margin-right: 10px;" type="button" value="Save"/> <input style="width: 80px; height: 25px; border: 1px solid #ccc; border-radius: 5px; background-color: #fff; color: black; font-weight: bold;" type="button" value="Cancel"/>	

Item	Explanation
Name	Define a name for the Ring Group
Strategy	Select “Ring All” or “Ring in order”
Ring Group Members	Select the Ring Group Member from “the Available Channels”, click to add.
If not answered	You can choose to forward the call to extension, voicemail, ring

group, IVR or hang up if not answered.

8.4.6 Time Based Rules

Create a Time Rule. For example, BusinessHours.

Select the start & end time, start & end days of the week, specific start & end dates and start & end month of the year.

When an inbound call is processed, if the current time of the PBX is within these parameters, then the “if time matches” destination will be used for the call. If the current time of the PBX is outside these parameters, then the “if time does not match” destination will be not used for the call.

Please configure a new time based rules from this page: 【Time Based Rule】 → 【New Time Rule】 :

The screenshot shows a dialog box titled "New Time Rule". It has three main sections: "Time & Date Conditions", "Destination", and buttons at the bottom. In the "Time & Date Conditions" section, fields for Start Time, Start Day, Start Date, and Start Month are highlighted with red boxes. In the "Destination" section, both dropdown menus for "if time matches" and "if time does not match" are also highlighted with red boxes. At the bottom are "Save" and "Cancel" buttons.

New Time Rule:

Item	Explanation
Rule Name	Define the name for this Time Rule.
Time&Date Conditions	Set parameters for Time/Day/ Date/ Month.
Destination	Select destination if time matches or does not match the conditions set. For example for BusinessHours, “if time matches”, select operator extension during BusinessHours. If outside business hours, select “if time does not match” destination of Operator voicemail

8.5 Advanced

8.5.1 Options

General

Default settings for local extensions and new extensions.

Select 【Advanced】 → 【Options】 → 【General】 :

General

General	Global Analog Settings	Global SIP Settings
Local Extension Settings		
Operator Extension: <none> ▾ Global Ring Time Set(sec): 30 Enable Transfer: <input checked="" type="checkbox"/> Enable Music On Ringback: <input type="checkbox"/> Record Format: GSM ▾		
Default Settings for New User		
SIP: <input checked="" type="checkbox"/> IAX2: <input type="checkbox"/> Web Manager: <input checked="" type="checkbox"/> Call Waiting: <input checked="" type="checkbox"/> Agent: <input type="checkbox"/> Voicemail: <input checked="" type="checkbox"/> Delete VMail: <input type="checkbox"/> VM Password: 1234 NAT: <input checked="" type="checkbox"/> Transport: UDP ▾ SRTP: <input type="checkbox"/> Audio Codecs <input checked="" type="checkbox"/> ulaw <input checked="" type="checkbox"/> alaw <input type="checkbox"/> G.722 <input checked="" type="checkbox"/> G.729 <input type="checkbox"/> G.726 <input type="checkbox"/> GSM <input type="checkbox"/> Speex		

Reference:

Item	Explanation
Operator Extension	Set extension number for Operator.
Global RingTime Set	Set RingTime for every extension.
Enable Transfer	Select to enable Transfer.
Enable Music On Ringback	Select to enable Music On Ringback.
Record Format	Set the format for recording files. (GSM/WAV only)
Defaut Setting for New User	Select to enable the default settings.
Extension Preferences	Set the rule for extensions.

Global Analog Settings

Select 【Advance】→【Options】→【Global Analog Settings】:

Global Analog Settings

General	Global Analog Settings	Global SIP Settings
Caller ID Detect		
Caller ID Detection: <input checked="" type="checkbox"/>		
Caller ID Signaling: <select>Bell-US</select>		
Caller ID Start: <select>Ring</select>		
CID Buffer Length: <input type="text" value="2500"/>		
General		
Opermode: <select>FCC</select>		
Tone Zone: <select>China</select>		
Relax DTMF: <input type="checkbox"/>		
Send Caller ID After: <input type="text" value="1"/>		
Echo Cancel: <input checked="" type="checkbox"/>		
Echo Training: <input type="text" value="no"/> (yes/no/number)		
Busy Detection: <input checked="" type="checkbox"/>		
Busy Count: <input type="text" value="3"/>		
<input type="button" value="Save"/> <input type="button" value="Cancel"/>		

Reference:

Item	Explanation
Caller ID Detection	Enable/Disable Caller ID Detection
Caller ID Signaling	Select the mode of Caller ID Signaling.
Caller ID Start	Ring--Caller ID start before ring. Polarity--Caller ID start when polarity reversal starts.
CID Buffer Length	Default CID Buffer Length
Opermode	Set the Opermode for FXO/GSM Ports.
ToneZone	Select the ToneZone in your country.
Relax DTMF	Enable/Disable Relax DTMF inspection.
Send Caller ID After	Some countries (UK) have ring tones with different ring tones (ring-ring), which means the caller ID needs to be set later on, and not just after the first ring
Echo Cancel	Enable/Disable Echo Cancel
Echo Training	Set Echo Training (default unit: ms)
Busy Detection	Enable/Disable Busy Detection.
Busy Count	Count the Busy Detection. It will be active when enable Busy Detection.

Global SIP Settings

【Global SIP Settings】 is designed for advanced administrators.
Please contact our technical support department before modifying anything in this section.

8.5.2 Voicemail

Select 【Advanced】 → 【Voicemail】 → 【General】:

General

General	Email Settings
VoiceMail Reference	
Max Greeting Time(sec):	<input type="text" value="30"/>
Dial "0" for Operator:	<input checked="" type="checkbox"/>
Voice Message Options	
Message Format:	<input type="button" value="WAV (16-bit)"/>
Maximum Messages:	<input type="button" value="100"/>
Max Message Time(min):	<input type="button" value="2"/>
Min Message Time(sec):	<input type="button" value="5"/>
Playback Options	
<input checked="" type="checkbox"/> Say Message CallerID	
<input checked="" type="checkbox"/> Say Message Duration	
<input type="checkbox"/> Play Envelope	
<input type="checkbox"/> Allow Users to Review	

Reference:

Item	Explanation
MaxGreeting Time(sec)	Maximum recording length for voicemail greetings
Dial "0" for Operator	Select this option to allow callers to dial "0" to transfer out of voicemail to the Operator.
Message Format	Save the voice message as this format, WAV(16-bit) or Raw GSM.
Maximum Messages	Maximum voicemail messages to be allowed to leave.
Max Message Time(min)	Maximum Time for each message to be allowed to leave.
Min Message Time(sec)	MinimumTime for each message. The message will be deleted automatically if the time is less than the min message time.
Say Message CallerID	Play the Caller ID of the caller before playing the voice message.

Say Message Duration	Play the message duration before playing the voice message.
Play Envelope	Play the date, time and caller ID for the voicemail message.
Allow Users to Review	Check this option to allow users to review the voice message.

Select 【Advance】 → 【Voicemail】 → 【Email Settings】 :

Email Settings

The screenshot shows the 'Email Settings' configuration interface. At the top, there are two tabs: 'General' (blue) and 'Email Settings' (orange). Below the tabs, the title 'Template for Voicemail Emails' is displayed. The template fields are as follows:

- Attach voicemail to email**: A checked checkbox.
- Sender Name**: A text input field containing 'test'.
- From**: A text input field containing 'pbx@zycoo.com'.
- Subject**: A text input field containing 'New Voicemail from \${VM_CALLERID}'.
- Message**: A text area containing the message template: 'Hello \${VM_NAME}, you received a message lasting \${VM_DUR} at \${VM_DATE} from, (\${VM_CALLERID}).'

At the bottom of the form are two buttons: 'Save' (green) and 'Cancel' (red).

Template Variables:

- `\${VM_NAME}` : Recipient's first name and last name
- `\${VM_DUR}` : The duration of the voicemail message
- `\${VM_MAILBOX}` : The recipient's extension
- `\${VM_CALLERID}` : The Caller ID of the person who left the message

Reference:

Item	Explanation
Attach voicemail to Email	The voicemail will be sent as attachment to the user's Email.
Sender Name	The sender's name will be displayed when you receive the Email.
From	Mailbox to send email
Subject	Subject of the Email.
Message	Input the Email template.

8.5.3 SMTP Settings

In order to allow email messages to be sent to users with attached voicemail and faxmail messages, the SMTP settings must be configured.

Select 【Advance】 → 【SMTP Settings】:

SMTP Settings

SMTP Settings:

SMTP Server:

Port:

SSL/TLS:

Enable SMTP Authentication

Save **Cancel**

Reference:

Item	Explanation
SMTP Server	You must set SMTP Server address or domain connected to the CooVox IP PBX, which is used for sending the voice message to Email.
Port	Port number for SMTP server. Default is 25, and it will be changed to 465 when you enable SSL/TLS.
SSL/TLS	Enable SSL/TLS.
Enable SMTP Authentication	If your SMTP server needs authentication, please enable this option, and configure the following.
Username	Input username of your Email.
Password	Input password of your Email.

8.5.4 Conference

A conference bridge is a virtual meeting room that allows multiple callers to hear and speak to each other. The conference bridge can be protected with a password so only callers with the password can access the conference. The software supports up to three conference rooms. To configure a conference bridge, go to 【Advanced】 → 【Conference】 :

Conference Default

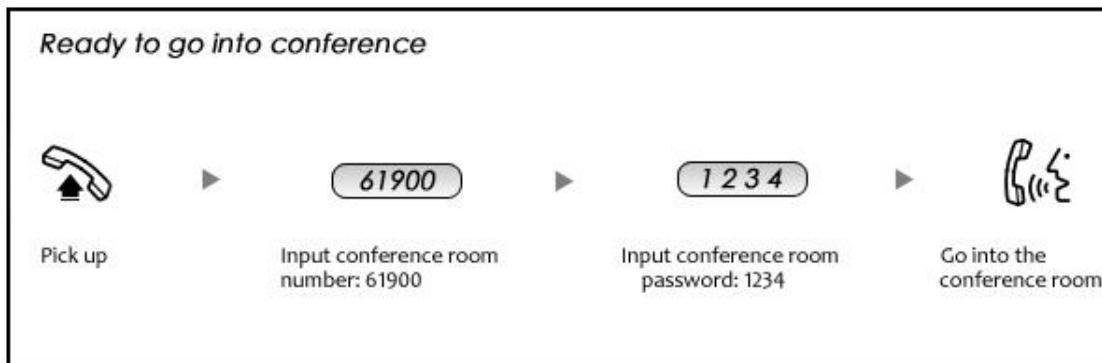
Conference Default	Conference 2	Conference 3
Conference Number		
Room Extension: <u>61900</u>		
Conference Password		
Guest Password: <u>1234</u> Administrator Password: <u>2345</u>		
Conference Options		
Conference DialPlan <u>DialPlan1</u> <input checked="" type="checkbox"/> Play hold music for first caller <input checked="" type="checkbox"/> Enable caller menu <input type="checkbox"/> Announce callers <input type="checkbox"/> Record conference <input type="checkbox"/> Quiet Mode <input type="checkbox"/> Leader Wait		
Save Cancel		

Reference:

Item	Explanation
Conference Number	The number that internal callers use to access the conference room, the default number is "NP+900"; each node will be set different NP for conference number to achieve the free conference calls in the whole CTMS.
Conference Password	Password for users to access the conference, e.g.: "1234".
Administrator Password	Password for administrator to access the conference.
Conference DialPlan	Use this dialplan to invite other participants.
Play hold music for the first participant	Check this option to play the hold music for the first participant in the conference until another participant enters in this conference.
Enable caller menu	Check this option to allow the participant to access the Conference Bridge menu by pressing "*" on the dialpad.
Announce callers	Check this option to announce to all Bridge participants that new participant is joining the conference.
Record conference	Recorded conference format is WAV.
Quiet Mode	If check this option, all the participants in the conference can hear only, but it is not allowed to speak.
Leader Wait	Wait until the conference leader(administrator) entering the

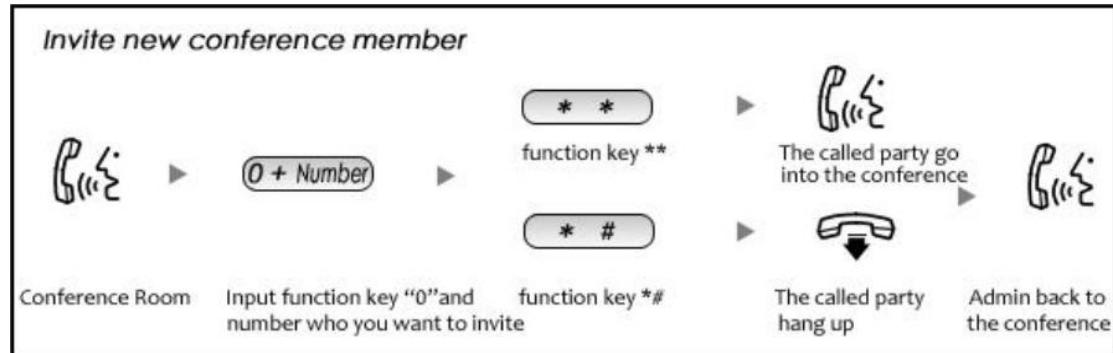
conference before starting the conference.

To join a conference, refer to the diagram as below:



While in a conference, the administrator can invite new guests (extension user or external number) into the conference. (Default password for admin is 2345)

As an administrator, to invite a new guest to the conference, refer to the diagram as below:



8.5.5 Music Settings

Management of Music on Hold, Music on Ringback, Music on Queue.

【Music Settings】 :

Music Settings	Music Management				
Music On Hold Reference <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Music: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> </div> Music On Ringback Reference <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Music: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 2"/> </div> Music On Queue Reference <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Music: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 3"/> </div> <div style="text-align: center; margin-top: 10px;"> <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold; margin-right: 10px;" type="button" value="Save"/> <input style="border: 1px solid #ccc; padding: 2px; background-color: #FFF; color: #0070C0; font-weight: bold;" type="button" value="Cancel"/> </div>					
<p>Select the different music file for different Music.</p> <p>【Music Management】</p> <p>Music Management</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0070C0; color: white; text-align: center; padding: 5px;">Music Settings</td> <td style="background-color: #FF9933; color: white; text-align: center; padding: 5px;">Music Management</td> </tr> <tr> <td colspan="2"> Music Management <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Select Music Directory: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold;" type="button" value="Load"/> Files: <input style="border: 1px solid #ccc; padding: 2px; margin-right: 10px;" type="button" value="▼"/> <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Delete"/> </div> Upload Music File <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Select Music Directory: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> Note: The sound file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw! The size is limited in 15MB!. Please choose file to upload: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Choose File"/> No file chosen <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold;" type="button" value="Upload"/> </div> </td> </tr> </table>		Music Settings	Music Management	Music Management <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Select Music Directory: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold;" type="button" value="Load"/> Files: <input style="border: 1px solid #ccc; padding: 2px; margin-right: 10px;" type="button" value="▼"/> <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Delete"/> </div> Upload Music File <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Select Music Directory: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> Note: The sound file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw! The size is limited in 15MB!. Please choose file to upload: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Choose File"/> No file chosen <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold;" type="button" value="Upload"/> </div>	
Music Settings	Music Management				
Music Management <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Select Music Directory: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold;" type="button" value="Load"/> Files: <input style="border: 1px solid #ccc; padding: 2px; margin-right: 10px;" type="button" value="▼"/> <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Delete"/> </div> Upload Music File <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> Select Music Directory: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Music 1"/> Note: The sound file must be wav(16bit/8000Hz/Mono), gsm, ulaw or alaw! The size is limited in 15MB!. Please choose file to upload: <input style="border: 1px solid #ccc; padding: 2px;" type="button" value="Choose File"/> No file chosen <input style="border: 1px solid #ccc; padding: 2px; background-color: #E6F2FF; color: #0070C0; font-weight: bold;" type="button" value="Upload"/> </div>					

Reference:

Item	Explanation
Select Music Directory	Select which Music Directory you wish to load.
File	Display music name under the music file, you can delete it.
Select Music Directory	Select the file where you want to save your uploaded music.
Please choose file to upload	Select the music you want to upload. Note: music file must be WAV(16bit/8000Hz/Single), GSM, ulaw or alaw, and less than 15MB.

8.5.6 DISA

This feature allows an authorized user to call into the PBX and then place an outbound call using another trunk. For example, an employee working out of the office who needs to make an international call using trunks connected to the PBX. By calling the DISA number, and after entering the user PIN as authentication, the caller will hear a dial tone and can make a call as if they were an extension on the PBX. Especially in the CTMS, DISA is a powerful feature to save long distance call cost for companies.

Please configure as below.

Select 【Advance】 → 【DISA】 → 【New DISA】

The screenshot shows the 'New DISA' configuration dialog box. It includes fields for Name, PIN Set (set to 'Without PIN'), Record in CDR (unchecked), Response Timeout (set to 5), Digit Timeout (set to 3), Extension for this DISA (Optional) (empty), Allow Outbound Route (dropdown set to 'Select DialPlan'), and Save/Cancel buttons.

Item	Explanation
Name	Define a name for DISA.
PIN Set	User will be prompted to input this number when PIN Authentication is needed.
Record in CDR	Select to record.
Response Timeout(sec)	The maximum time for waiting before hanging up if the dialed number is incomplete or invalid. Default is 10 seconds
Digit Timeout(sec)	The maximum interval time between digits when typing extension number. Default is 5 seconds.
Extension for this DISA(Optional)	If you want to access DISA by dialing an extension, you can define an extension number for this DISA.
Select DialPlan	Select the DialPlan for this DISA.

Reference:

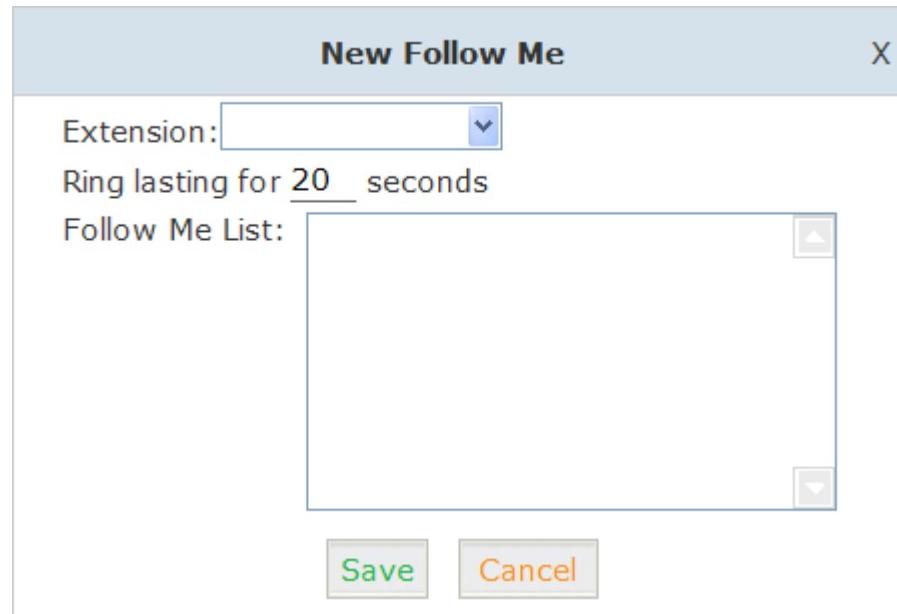
Item	Explanation
Name	Define a name for DISA.
PIN Set	User will be prompted to input this number when PIN Authentication is needed.
Record in CDR	Select to record.
Response Timeout(sec)	The maximum time for waiting before hanging up if the dialed number is incomplete or invalid. Default is 10 seconds
Digit Timeout(sec)	The maximum interval time between digits when typing extension number. Default is 5 seconds.
Extension for this DISA(Optional)	If you want to access DISA by dialing an extension, you can define an extension number for this DISA.
Select DialPlan	Select the DialPlan for this DISA.

8.5.7 Follow Me

This feature allows callers to define a list of numbers (internal and external) where they can be reached and have their calls automatically forwarded when the call is not answered at their primary extension. It is suitable for employees who are out of office.

Please configure as below:

Select 【Advanced】 → 【Follow Me】 → 【New Follow Me】 :



Select an extension, set the ring duration, and add the numbers in the Follow Me List; 【Save】 and 【Activate】 .

List Format: Extension Number, Ring Duration

E.g.: 9431,30

9433,20

9431 rings, after 30 seconds, the call is going to 9433

【Follow Me Options】

Follow Me Options

- Playback the incoming status message prior to starting the follow-me step(sec).
- Record the caller's name so it can be announced to the callee on each step.
- Playback the unreachable status message if we've run out of all steps or the callee was set not to be reachable.

Save

8.5.8 Paging & Intercom

This feature allows setting up a Paging group so that when the Paging extension is dialed, the listed extensions allow the caller to speak through the external speaker phone of the extension. The extensions in the Paging group must use phones that support this feature. If the Duplex option is selected, and the listed extensions use phones that support Duplex, then all the phones in the paging group will be able to have two-way conversations.

Select **【Advanced】** → **【Paging and Intercom】** → **【New Paging Group】** :

New X

Paging Extension: 9401

Description: _____

<div style="border: 1px solid #ccc; padding: 5px; height: 150px; overflow-y: auto;"> 9400(SIP) 9400 9431(SIP) 9431 9434(SIP) 9434 </div>	<div style="border: 1px solid #ccc; padding: 5px; height: 150px; overflow-y: auto;"> 9430(SIP) 9430 9432(SIP) 9432 9433(SIP) 9433 9435(SIP) 9435 9436(SIP) 9436 9437(SIP) 9437 </div>
<div style="display: flex; justify-content: space-around;"> Paging Group Members Device List </div>	
<input type="checkbox"/> Duplex: _____	
Save Cancel	

Reference:

Item	Explanation
Paging Extension	Define an extension for this Paging Group.
Description	Define a name for this Paging Group.
Paging Group Members	Selected devices in this Paging Group.

Device List	Select device(s) here to Paging Group.
Duplex	Paging is typically one way for announcements only. Checking this will make the paging duplex, allowing all phones in the paging group to be able to talk and be heard by all. This makes it look like an "instant conference".

8.5.9 PIN Sets

This feature allows an administrator to specify a list of PIN codes in a PIN Set. The PIN can be set on Outbound Routes to ensure only an authorized user is making the call.

Please configure as below.

Select 【Advanced】 → 【PIN Sets】 → 【New PIN Set】 :

New PIN Set

X

PIN Set Name: _____

PIN List:

Save Cancel

Item	Explanation
PIN Set Name	Define the name for this PIN Set
PIN List	Define PIN codes in this list

8.5.10 Feature Codes

Select 【Advanced】 → 【Feature Codes】 and you can view or edit the feature codes listed below.

Feature Codes

Feature Codes Management	
Call Parking	
Extension to Dial for Parking Calls:	<u>700</u>
Extension Range to Park Calls:	<u>701-720</u>
Call Parking Time(sec):	<u>45</u>
Parking Hints:	<input type="checkbox"/>
Pickup Call	
Pickup Extension:	<u>*8</u>
Pickup Specified Extension:	<u>**</u>
Transfer	
Blind Transfer:	<u>#</u>
Attended Transfer:	<u>*2</u>
Disconnect Call:	<u>*</u>
Timeout for answer on attended transfer(sec):	<u>15</u>
One Touch Recording	
One Touch Recording:	<u>*1</u>
Call Forward	
Enable Forward All Calls:	<u>*71</u>
Disable Forward All Calls:	<u>*071</u>
Enable Forward on Busy:	<u>*72</u>
Disable Forward on Busy:	<u>*072</u>
Enable Forward on No Answer:	<u>*73</u>
Disable Forward on No Answer:	<u>*073</u>
Do Not Disturb	
Enable Do Not Disturb:	<u>*74</u>
Disable Do Not Disturb:	<u>*074</u>
Spy	
Normal Spy:	<u>*90</u>
Whisper Spy:	<u>*91</u>
Barge Spy:	<u>*92</u>
Black List	
Blacklist a number:	<u>*75</u>
Remove a number from the blacklist:	<u>*075</u>
Voicemail	
Voicemail Main Menu:	<u>*60</u>
Check Extension Voicemail:	<u>*61</u>
Conference	
Invite Participant:	<u>0</u>
Create Conference:	<u>*0</u>
Return to conference with participant:	<u>**</u>
Return to conference without participant:	<u>*#</u>
Call Queues	
Pause Queue Member Extension:	<u>*95</u>
Unpause Queue Member Extension:	<u>*095</u>
Others	
Intercom:	<u>*50</u>
Paging:	<u>*51</u>
Directory:	<u>*3</u>

Save **Cancel**

Reference:

Item	Explanation
Extension to Dial for Parking Calls	Define an extension for parking calls.
Extension Range to Park Calls	Define the extension range for parking calls. (e.g.: 701-720)

Call Parking Time(sec)	Define the time for parking calls. CooVox IP PBX will return the call to the extension after this time limit has expired.
Pickup Extension	This feature code will pick up a call given that the callers extension and the ringing extension are in the same pickup group and call group.
Pickup Specified Extension	This feature code allows a caller to Pickup a call ringing on the specified extension. Default: Dial**+extension number to pickup the specified extension.
Blind Transfer	To Allow unattended or blind transfer while on a call based on the following steps: 3.While on a call with caller "A", the user dials the blind transfer key sequence (in this case "#"). The system places the original call with "A" on hold, says "Transfer" then gives a dial tone. 4.dial the transferee extension or phone number you wish to transfer the call to "B" and hangup the phone. 5.The original caller "A" is transferred immediately to the transferee "B" and "B" see the callerid of "A".
Attended Transfer	To Allow attended or supervised transfer while on a call based on the following steps: 6.While on a call with caller "A", the user dials the supervised transfer key sequence (in this case "*2"). The system places the original call with "A" on hold, says "Transfer" then gives a dial tone. 7.dial the transferee extension or phone number you wish to transfer the call to "B" and wait for "B" to answer the phone and talk to "B" to introduce the call. 1.If "B" does not wish to take the call, "B" can hang up the call and you are returned to your call with "A". 2.If "B" wishes to accept the call, you hang up the phone and caller "A" is transferred to the transferee "B". 3.If the call goes to voicemail or you wish to abort the transfer, simply press the "disconnect call" key sequence (in this case "*") and the transfer will be aborted and you will be back on the call with the original caller "A".
Disconnect Call	Disconnect the current transfer call (for Attended transfer).
Timeout for answer on attended transfer (sec)	Set the timeout value for answer on attended transfer
One Touch Recording	Configure the function key for One Touch Recording
Call Forward	Enable/Disable Call Forward and the settings of function keys for different forward modes.
Do Not Disturb	Enable/Disable "Do Not Disturb"
Spy	Configure the function keys for spy modes.
Blacklist	Add/Delete blacklist number.

Voicemail	Configure the function keys for entering voicemail and check extension voicemail.
Invite Participant	In conference, the administrator can invite people into the conference by dialing “0”. After pressing “0”, you will get dialtone, and you can dial to invite people. After the call is connected, please press ** to direct the people into the conference, or *# to hang up the current call and return to the conference.
Create Conference	During the call, you can dial *0 to forward to the conference with the callee.
Return to conference with participant	In conference, the administrator can dial “0” to invite people into the conference. After pressing “0”, you will get dialtone, and you can dial to invite the participant; when the call is connected, dial “**” to return to the conference with invited participant.
Return to conference without participant	In conference, the administrator can dial “0” to invite people into the conference. After pressing “0”, you will get dialtone, and you can dial to invite the participant. When the call is connected, you can dial “*#” to hang up and return the conference yourself.
Pause Queue Member Extension	Pause the agent, and the agent cannot receive the call.
Unpause Queue Member Extension	Unpause the agent, and the agent can receive the call.
Others	Function key for Intercom/ Paging/ Directory

8.5.11 Phone Provisioning

When deploying large numbers of IP Phones, it is time consuming to have to configure each extension manually. CooVox allows certain IP Phones to be auto-provisioned, then all the phones can be auto-provisioned via CTMC, how it is amazing for enterprise!

To achieve this, please record the MAC, extension number, and username of each phone in the required format (please take reference of the auto provision script file model for details), then import the formatted file, once the phone is connected to the local network, it will get the extension number and password automatically. There are two operation methods to fulfill this function: DHCP & PnP . Please see details as below:

Method 1: PnP Settings via CTN

Login the CTN, select 【Advanced】→【Phone Provisioning】→【PnP Settings】to enable PnP Settings, the default will be shown as below:

Plug and Play(PnP) Settings

Phones Settings	PnP Settings
Plug and Play(PnP) Settings	
Enable:	<input checked="" type="checkbox"/>
Interface:	WAN ▼
Custom URL:	<input type="checkbox"/>
Multicasting Address:	224.0.1.75
Port:	5060
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Note: Custom URL is the path for some users to get the phone configuration files specially.

Method 2: Enable DHCP service via CTN

Note: Before using this method, please notice it will cause IP conflict in your network.

Login the CTN, select 【Network Settings】 → 【DHCP Server】 to enable DHCP Server in the following diagram:

DHCP Server Settings	
Enable:	<input checked="" type="checkbox"/>
Start IP:	192.168.1.101
End IP:	192.168.1.200
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.1
Primary DNS:	61.139.2.69
Lease Time(min):	1440
TFTP Server:	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Then select 【Advanced】 → 【Phone Provisioning】 → 【New Phone】 :

New Phone

X

General

Enable:

Manufacturer:

Type:

MAC: _____

Line

Line1 Extension: Label: _____

Enable and select the IP Phone manufacture, input the relative MAC address of the IP Phone; then select the extension number from the line.



Notice

The device supports IP Phones from ZYCOO/Akuvox/ Escene/ Yealink/ Grandstream now.

8.6 System

8.6.1 Management

To change the password of a node and select the voice prompt language, please select 【System】→【Management】:

Management

The screenshot shows two stacked configuration panels. The top panel is titled "Change Password" and contains fields for "Password", "New Password", and "Retype New Password", each with a green input field. Below these is a green "Apply" button. The bottom panel is titled "Set Language" and contains a dropdown menu labeled "Set Voice Language: English" with a blue arrow icon. Below it is a green "Save" button.

8.6.2 Backup

Backup or upload configuration file of nodes, select 【System】→【Backup】→【Backup】:

Backup

The screenshot shows a "List of Backups" table and a control bar. The control bar has two buttons: "Backup" (orange) and "Upload Backup File" (blue). The table has columns for "Name", "Date", and "Options". It lists one backup entry: "backup_2014may29_113728" from "May 29, 2014". The "Options" column for this row contains "Restore" (blue), "Delete" (red), and a checked checkbox.

List of Backups		Take a Backup	
Name	Date	Options	
1 backup_2014may29_113728	May 29, 2014	Restore	Delete <input checked="" type="checkbox"/>

Select “Take a Backup”, create the backup file of current system.

To restore the system from a backup file, please select 【System】→【Backup】→【Upload Backup File】:

Upload Backup File

Backup	Upload Backup File
Upload Backup File	
Note: Don't change the backup file name.	
Please choose file to upload: <input type="file"/> Choose File No file chosen	
<input type="button" value="Upload"/>	

Select the configuration file to restore and select "Upload". After the operation has completed, go back to 【Node Management】 → 【Operation】 , the updated status is now shown.

Operation ↗

	Name	Version	Push Conf.	Status	Operation	Firmware	Result	<input type="checkbox"/>
1	Chengdu	1.0.5	Yes <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Kielce	1.0.5	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Doncaster	1.0.4	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Dubai	1.0.5	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Medellin	1.0.5	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Miami	1.0.5	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Hannover	1.0.5	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Caracas	1.0.5	No <input type="button" value="▼"/>	Online	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Taipei	1.0.5	No <input type="button" value="▼"/>	Offline	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Monterrey	1.0.5	No <input type="button" value="▼"/>	Offline	Service Reload <input type="button" value="▼"/>	<input type="button" value="▼"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: Reboot is necessary after being restored

<The End>